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Abstract

A hysteresis current control method is designed and implemented in this paper. The main objective of the control system is to force an actual current in single phase load according to a reference trajectory. The implementation from this project using dsPIC makes good performance and hardware simplicity. dsPIC33FJ16GS502 is used to generate pwm switching signal based on hysteresis control. The complete design is modeled in Psim software and its output is verified practically.

Keyword : Inverter Single Phase, Controlled Current Source, Hysteresis